

GEOMAGNETIC OBSERVATIONS
ON FLETCHER'S ICE ISLAND (T-3)
APRIL 18 TO SEPTEMBER 11, 1961

James C. G. Walker

LAMONT GEOLOGICAL OBSERVATORY
COLUMBIA UNIVERSITY
Palisades, New York

Project No. 7628

Task No. 762805

Scientific Report No. 6

Contract AF 19 [604] 7442

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Office of Aerospace Research
United States Air Force
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A nuclear resonance magnetometer was operated on Fletcher's Ice Island (T-3) in the Arctic Ocean during the summer of 1961. During the whole recording period, T-3 was aground on the continental shelf in water 40 meters deep. The island was at 72°N , 160°W , about 80 miles west-northwest of Point Barrow, Alaska. This location corresponds to a geomagnetic latitude of 69°N , just north of the auroral zone. Since T-3 was stationary, the data were not affected by spatial variations in the magnetic field.

A strip chart record of the total intensity of the magnetic field was made at a speed of 4 minutes to the inch, and a sensitivity of approximately 11 gamma to the inch. Instantaneous hourly values read from these records are given in Table 1. They are plotted against Greenwich Mean Time in Figures 1, 2 and 3. Missing values are the result of instrument failure. The observations cover the period from April 18 to September 11, 1961.

The mean daily variation has been calculated for the 21 international disturbed days and the 24 international quiet days which occurred during the recording period, as well as

for all days together. These results are given in Table 2 and in Figure 4. Table 2 also gives the average of all hourly values observed on disturbed, quiet, and all days.

Acknowledgments

The field work was shared by K. Hunkins, H. Kutschale, R. Page, and the author. Most of the hourly values were read by Mrs. M. Furey.

This research was sponsored by Air Force Cambridge Research Laboratories, contract AF19 (604) 7442.

LIST OF ILLUSTRATIONS

- Figure 1 Hourly values in gammas of the magnetic field total intensity, April 18 to June 12, 1961. Q and D denote international quiet and disturbed days, respectively. The double arrows indicate the times of world-wide sudden commencements.
- Figure 2 Hourly values in gammas of the magnetic field total intensity, June 13 to July 17, 1961.
- Figure 3 Hourly values in gammas of the magnetic field total intensity, July 18 to September 11, 1961.
- Figure 4 Mean daily variation of the total intensity for quiet, disturbed, and all days.

LIST OF TABLES

- Table 1 Hourly values in gammas of the magnetic field total intensity, April 18 to September 11, 1961, against Greenwich Mean Time.
- Table 2 Mean daily variation and mean value of the total intensity for quiet, disturbed, and all days.

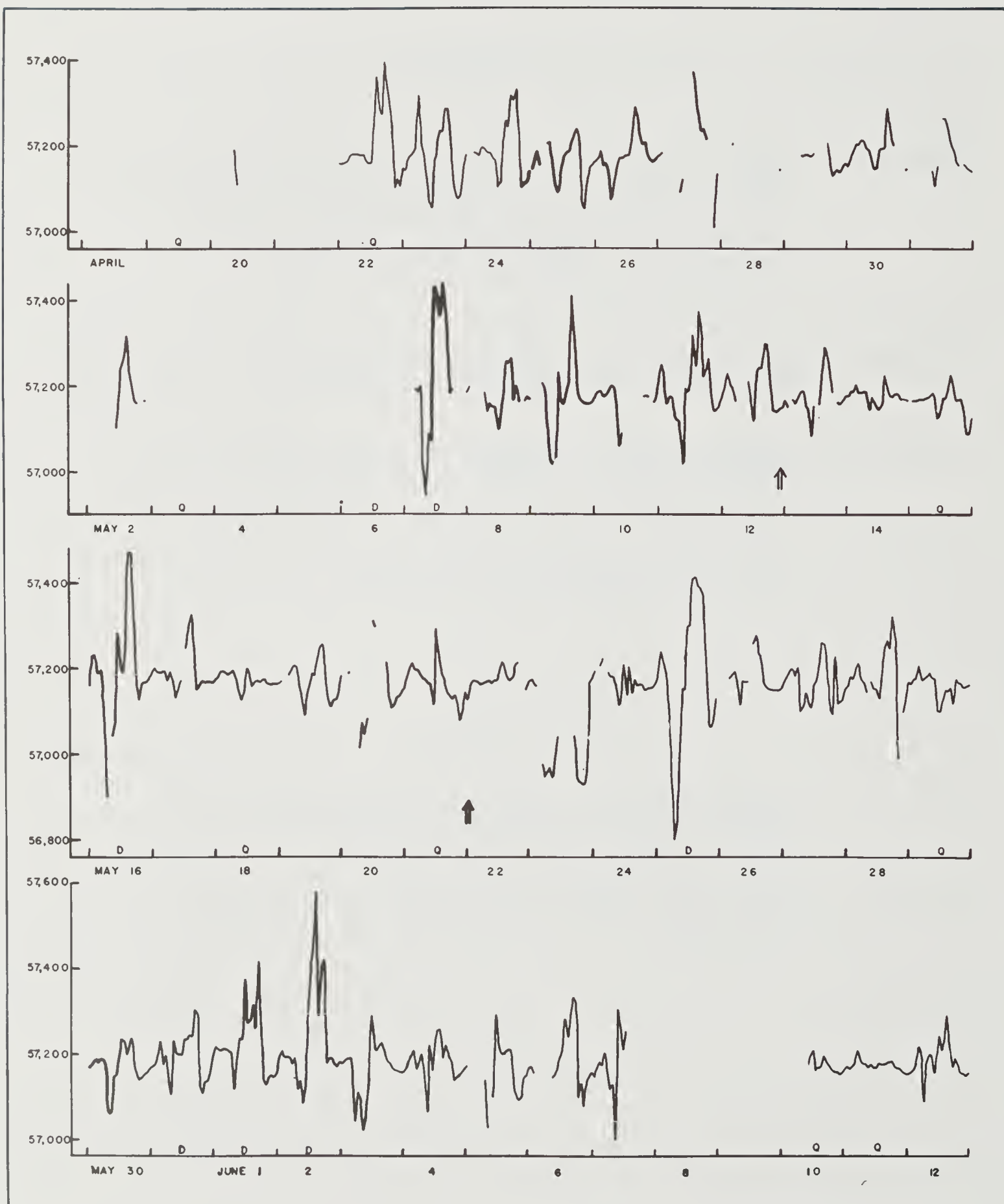


FIGURE 1

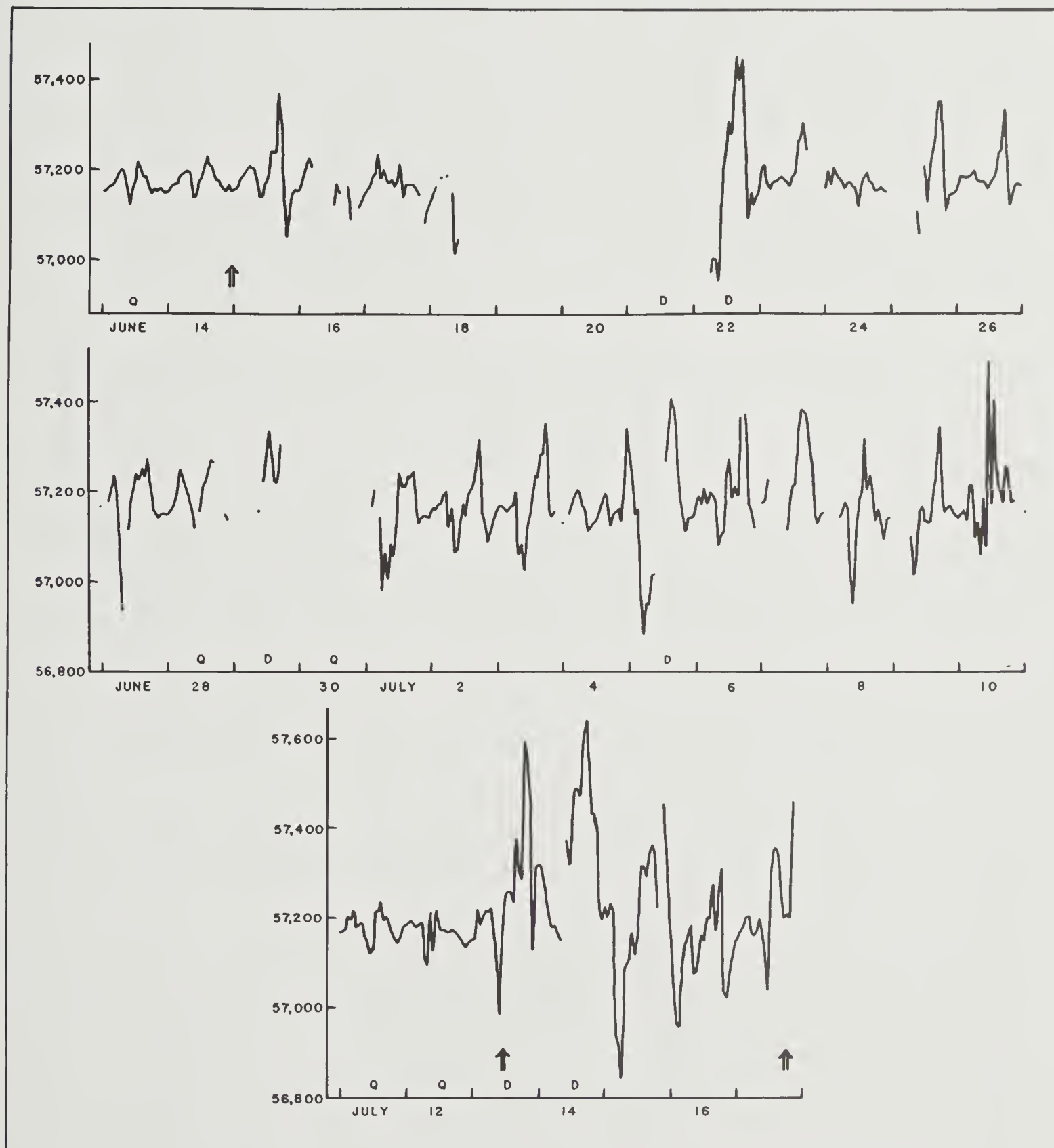


FIGURE 2

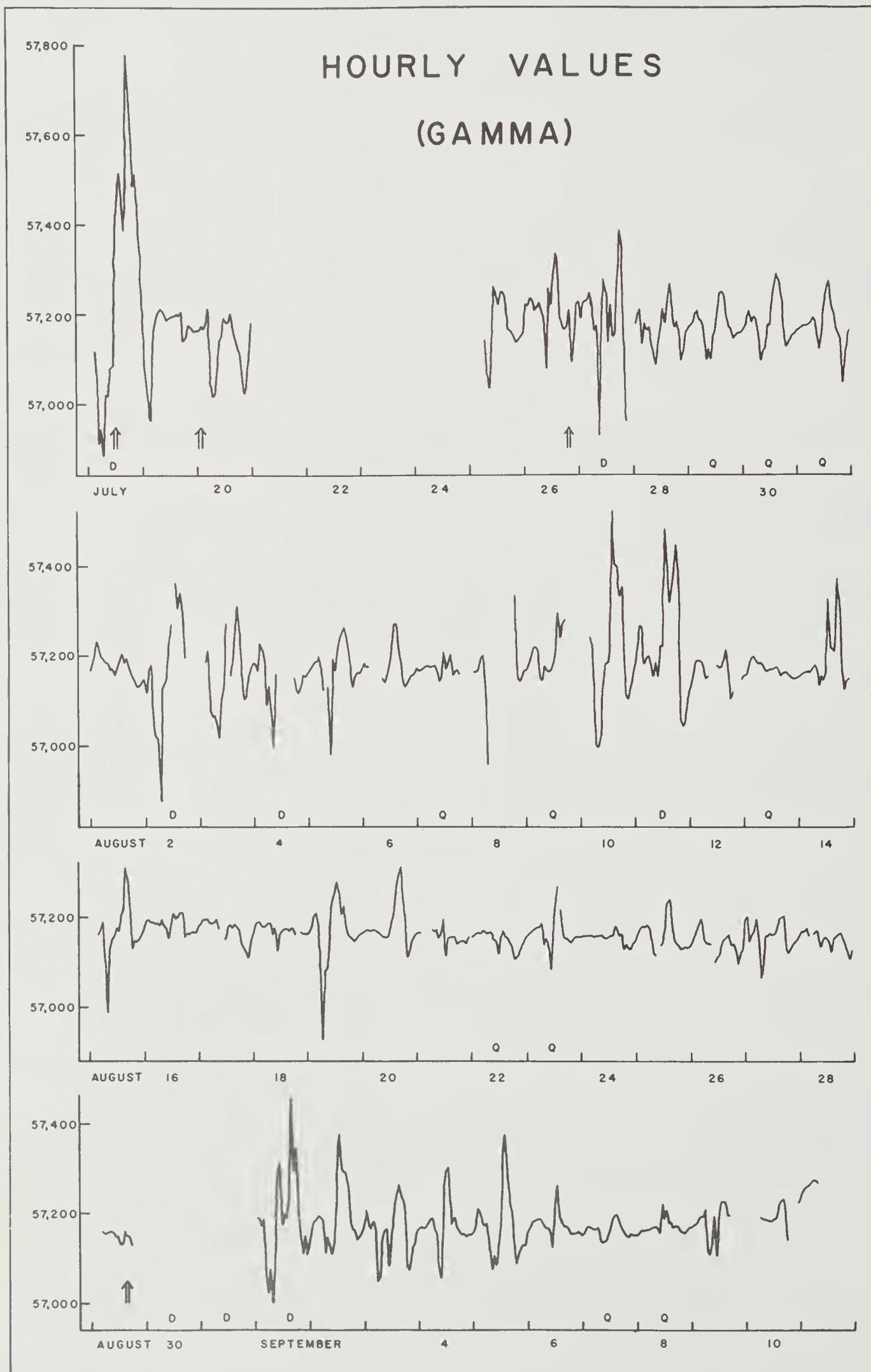


FIGURE 3

MEAN DAILY VARIATION

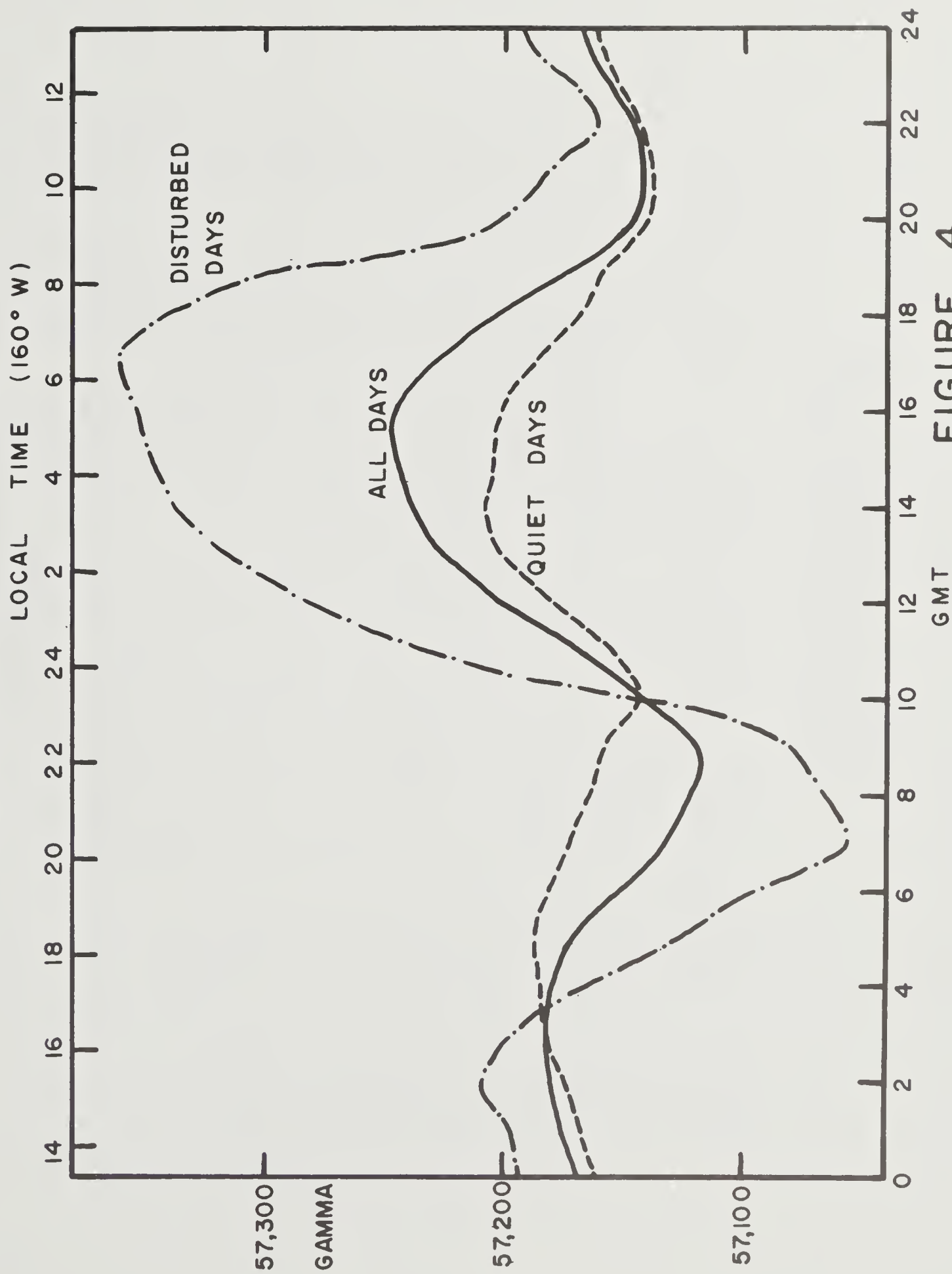


FIGURE 4

TABLE 1

HOURLY VALUES IN GAMMAS OF THE MAGNETIC FIELD TOTAL INTENSITY
APRIL 18 TO SEPTEMBER 11, 1961
AGAINST GREENWICH MEAN TIME

	FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT						
	18	19	20	21	22	23	24 APRIL
01	+	+	+	+	+57159.	+57143.	+
02	+	+	+	+	+57162.	+57170.	+
03	+	+	+	+	+57164.	+57174.	+57184.
04	+	+	+	+	+57178.	+57183.	+57184.
05	+	+	+	+	+57181.	+57194.	+57178.
06	+	+	+	+	+57183.	+57316.	+57197.
07	+	+	+	+	+57181.	+57205.	+57194.
08	+	+	+57190.	+	+57179.	+57176.	+57186.
09	+	+	+57108.	+	+57180.	+57129.	+57184.
10	+	+	+	+	+57165.	+57070.	+57172.
11	+	+	+	+	+57159.	+57052.	+57168.
12	+	+	+	+	+57159.	+57164.	+57105.
13	+	+	+	+	+57224.	+57180.	+57113.
14	+	+	+	+	+57360.	+57234.	+57210.
15	+	+	+	+	+57293.	+57234.	+57259.
16	+	+	+	+	+57272.	+57286.	+57244.
17	+	+	+	+	+57396.	+57285.	+57315.
18	+	+	+	+	+57334.	+57220.	+57309.
19	+	+	+	+	+57285.	+57118.	+57331.
20	+	+	+	+	+57212.	+57083.	+57210.
21	+	+	+	+	+57104.	+57075.	+57103.
22	+	+	+	+	+57123.	+57085.	+57112.
23	+	+	+	+	+57106.	+57146.	+57114.
24	+	+	+	+57158.	+57147.	+57179.	+57141.
MEAN	+0.00	+0.00	+57149.00	+57158.00	+57204.41	+57170.87	+57191.50

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.		TOTAL INTENSITY VS GMT					01 APRIL/MAY	
		25	26	27	28	29	30	
01		+57142.	+57161.	+57175.	+	+	+57151.	+
02		+57169.	+57169.	+57181.	+	+	+57171.	+
03		+57186.	+57185.	+	+	+	+57187.	+
04		+57154.	+57153.	+	+	+	+57203.	+
05		+	+57157.	+	+57202.	+	+57203.	+57251.
06		+	+57134.	+	+	+	+57213.	+
07		+57205.	+57073.	+	+	+57175.	+57211.	+
08		+57207.	+57107.	+	+	+57175.	+57193.	+
09		+57138.	+57147.	+57089.	+	+57178.	+57188.	+57142.
10		+57101.	+57170.	+57118.	+	+57175.	+57161.	+57105.
11		+57089.	+57169.	+	+	+57175.	+57144.	+57150.
12		+57123.	+57174.	+	+	+57180.	+57146.	+
13		+57173.	+57175.	+	+	+	+57189.	+57261.
14		+57184.	+57180.	+57370.	+	+	+57191.	+57261.
15		+57184.	+57226.	+57305.	+	+	+57196.	+57237.
16		+57212.	+57289.	+57277.	+	+	+57287.	+57207.
17		+57225.	+57252.	+57232.	+	+57204.	+57219.	+57191.
18		+57238.	+57215.	+57239.	+	+57154.	+57199.	+57160.
19		+57198.	+57201.	+57213.	+	+57129.	+	+57154.
20		+57061.	+57204.	+	+	+57140.	+	+
21		+57049.	+57171.	+	+	+57142.	+	+57154.
22		+57123.	+57164.	+57009.	+	+57136.	+	+57148.
23		+57148.	+57160.	+57131.	+57143.	+57152.	+57144.	+57145.
24		+57155.	+57169.	+	+	+57158.	+	+57138.
MEAN		+57157.45	+57175.20	+57194.91	+57172.50	+57162.35	+57189.26	+57180.26

TABLE 1
(continued)

	FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT							
	02	03	04	05	06	07	08	MAY
01	+	+	+	+	+	+	+57194.	
02	+	+	+	+	+	+	+	+
03	+	+	+	+	+	+	+	+
04	+	+	+	+	+	+	+	+
05	+	+	+	+	+	+57190.	+	+
06	+	+	+	+	+	+57183.	+	+
07	+	+	+	+	+	+57199.	+57180.	
08	+	+	+	+	+	+57008.	+57138.	
09	+	+	+	+	+	+56941.	+57157.	
10	+57099.	+	+	+	+	+57085.	+57148.	
11	+57141.	+	+	+	+	+57070.	+57148.	
12	+57241.	+	+	+	+	+57426.	+57093.	
13	+57258.	+	+	+	+	+57417.	+57134.	
14	+57314.	+	+	+	+	+57360.	+57175.	
15	+57230.	+	+	+	+	+57438.	+57253.	
16	+57199.	+	+	+	+	+57387.	+57251.	
17	+57163.	+	+	+	+	+57297.	+57263.	
18	+57158.	+	+	+	+	+57180.	+57164.	
19	+	+	+	+	+	+57191.	+57198.	
20	+	+	+	+	+	+	+57160.	
21	+57163.	+	+	+	+	+	+	+
22	+	+	+	+	+	+	+57163.	
23	+	+	+	+	+	+57181.	+57173.	
							+57168.	
MEAN	+57196.60	+0.00	+0.00	+0.00	+0.00	+57222.06	+57175.55	

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.					TOTAL INTENSITY VS GMT				
	09	10	11	12	13	14	15	MAY	
01	+	+57177.	+57216.	+57179.	+57166.	+57175.	+57164.		
02	+	+57185.	+57248.	+57191.	+57151.	+57188.	+57167.		
03	+	+57186.	+57218.	+57230.	+	+57185.	+57165.		
04	+	+57173.	+57158.	+57202.	+57168.	+57203.	+57169.		
05	+57203.	+57179.	+57175.	+57196.	+57160.	+57185.	+57169.		
06	+57190.	+57188.	+57174.	+57165.	+57173.	+57184.	+57169.		
07	+57073.	+57201.	+57131.	+	+57186.	+57188.	+57172.		
08	+57021.	+57198.	+57119.	+57090.	+57188.	+57186.	+57175.		
09	+57015.	+57172.	+57116.	+	+57150.	+57145.	+57184.		
10	+57019.	+57058.	+57015.	+	+57146.	+57174.	+57169.		
11	+57230.	+57089.	+57191.	+57208.	+57083.	+57164.	+57125.		
12	+57166.	+	+57185.	+57163.	+57151.	+57148.	+57141.		
13	+57155.	+	+57209.	+57119.	+	+57145.	+57172.		
14	+57186.	+	+57317.	+57224.	+57158.	+57164.	+57170.		
15	+57214.	+	+57245.	+57244.	+57203.	+57224.	+57191.		
16	+57409.	+	+57373.	+57241.	+57290.	+57194.	+57225.		
17	+57303.	+	+57341.	+57297.	+57278.	+57176.	+57204.		
18	+57184.	+	+57223.	+57297.	+57227.	+57174.	+57166.		
19	+57166.	+57173.	+57241.	+57219.	+57186.	+57182.	+57166.		
20	+57162.	+57177.	+57264.	+57143.	+	+57180.	+57170.		
21	+57159.	+57174.	+57175.	+57143.	+57161.	+57169.	+57137.		
22	+57157.	+	+57141.	+57139.	+57157.	+57168.	+57089.		
23	+57159.	+57160.	+57145.	+57147.	+57166.	+57167.	+57086.		
24	+57162.	+57175.	+57160.	+57149.	+57176.	+57164.	+57124.		
MEAN	+57166.65	+57166.56	+57199.16	+57189.80	+57177.33	+57176.33	+57161.20		

TABLE 1
(continued)

	FLETCHERS ICE ISLAND (T3), 1961.				TOTAL INTENSITY VS GMT			
	16	17	18	19	20	21	22	MAY
00	+57158.	+57193.	+57175.	+57165.	+57182.	+57153.	+57128.	
01	+57229.	+57203.	+57180.	+57170.	+	+57175.	+57161.	
02	+57232.	+57193.	+57193.	+	+	+57199.	+57172.	
03	+57189.	+57191.	+57193.	+	+57191.	+57213.	+57171.	
04	+57189.	+57193.	+57191.	+57186.	+	+57197.	+57168.	
05	+57197.	+57194.	+57186.	+57196.	+	+57197.	+57163.	
06	+57057.	+57172.	+57190.	+57207.	+	+57190.	+57165.	
07	+56901.	+57191.	+57195.	+57207.	+57016.	+57176.	+57170.	
08	+	+57168.	+57178.	+57161.	+57071.	+57174.	+57172.	
09	+57041.	+57133.	+57149.	+57139.	+57046.	+57164.	+57165.	
10	+57077.	+57152.	+57126.	+57093.	+57083.	+57163.	+57173.	
11	+57283.	+57171.	+57144.	+57139.	+	+57116.	+57173.	
12	+57209.	+	+57200.	+57165.	+57309.	+57291.	+57198.	
13	+57191.	+57249.	+57191.	+57189.	+57297.	+57226.	+57216.	
14	+57263.	+57303.	+57160.	+57186.	+	+57188.	+57196.	
15	+57471.	+57326.	+57168.	+57227.	+	+57178.	+57180.	
16	+57471.	+57252.	+57171.	+57253.	+	+57145.	+57173.	
17	+57314.	+57152.	+57169.	+57257.	+57215.	+57139.	+57180.	
18	+57169.	+57163.	+57176.	+57169.	+57146.	+57130.	+57210.	
19	+57126.	+57171.	+57175.	+57125.	+57109.	+57137.	+57215.	
20	+57162.	+57168.	+57164.	+57111.	+57115.	+57119.	+	
21	+57170.	+57168.	+57166.	+57128.	+57134.	+57082.	+	
22	+57170.	+57170.	+57164.	+57129.	+57135.	+57106.	+57154.	
23	+57179.	+57166.	+57165.	+57143.	+57148.	+57144.	+57169.	
MEAN	+57193.39	+57193.13	+57173.70	+57170.22	+57146.46	+57166.75	+57176.00	

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.		TOTAL INTENSITY VS GMT						
		23	24	25	26	27	28	29 MAY
00		+	+571179.	+571166.	+	+571159.	+571153.	+571168.
01		+571174.	+571194.	+571193.	+	+571175.	+571159.	+571165.
02		+571164.	+	+572339.	+	+571187.	+571183.	+571176.
03		+571160.	+572208.	+572110.	+	+571199.	+571176.	+571178.
04		+	+572224.	+571190.	+571178.	+572201.	+572200.	+572207.
05		+56978.	+	+57060.	+571185.	+571185.	+57212.	+571174.
06		+56950.	+571192.	+56918.	+571193.	+572203.	+571176.	+571179.
07		+56958.	+571181.	+56801.	+571169.	+571103.	+571169.	+571184.
08		+56970.	+571182.	+56833.	+571117.	+571111.	+571146.	+571190.
09		+56947.	+571164.	+57013.	+571171.	+571143.	+	+571179.
10		+56997.	+571114.	+571152.	+571171.	+571120.	+571169.	+571175.
11		+57041.	+571154.	+571152.	+571171.	+571110.	+571153.	+571103.
12		+	+572209.	+57297.	+	+571161.	+571154.	+571100.
13		+	+571139.	+57303.	+57261.	+571175.	+571131.	+571127.
14		+	+572203.	+57409.	+57277.	+572208.	+571190.	+571149.
15		+	+571145.	+57415.	+57235.	+57261.	+57251.	+571148.
16		+	+571174.	+57392.	+57230.	+57257.	+57265.	+571154.
17		+57044.	+571160.	+57388.	+571165.	+571187.	+57248.	+571122.
18		+56950.	+571163.	+57370.	+571158.	+571110.	+57320.	+571174.
19		+56936.	+571161.	+57224.	+571153.	+57094.	+57257.	+571166.
20		+56935.	+571150.	+57074.	+571151.	+57225.	+56992.	+571164.
21		+56930.	+571154.	+57063.	+571151.	+571121.	+	+571156.
22		+56959.	+571154.	+57085.	+571149.	+571124.	+57099.	+571158.
23		+571168.	+571158.	+571130.	+571150.	+571129.	+571127.	+571161.
MEAN		+57015.35	+571171.00	+571169.87	+571180.78	+571164.50	+571178.63	+571160.70

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.		TOTAL INTENSITY VS GMT					MAY / JUNE	
		30	31	01	02	03	04	05
00		+57166.	+57169.	+57200.	+57158.	+57183.	+57159.	+57174.
01		+57171.	+57173.	+57218.	+57195.	+57180.	+57168.	+
02		+57179.	+57176.	+57212.	+57208.	+57185.	+57185.	+
03		+57188.	+57199.	+57208.	+57194.	+57189.	+57194.	+
04		+57180.	+57230.	+57213.	+57193.	+57192.	+57209.	+
05		+57187.	+57177.	+57213.	+57193.	+57146.	+57166.	+
06		+57188.	+57197.	+57207.	+57180.	+57046.	+57177.	+
07		+57175.	+57144.	+57203.	+57192.	+57111.	+57200.	+57139.
08		+57064.	+57106.	+57120.	+57119.	+57094.	+57149.	+57033.
09		+57057.	+57231.	+57194.	+57138.	+57024.	+57066.	+
10		+57145.	+57201.	+57236.	+57086.	+57088.	+57220.	+57101.
11		+57151.	+57200.	+57235.	+57133.	+57158.	+57164.	+57291.
12		+57189.	+57199.	+57372.	+57294.	+57289.	+57225.	+57225.
13		+57234.	+57235.	+57275.	+57409.	+57210.	+57258.	+57203.
14		+57231.	+57235.	+57279.	+57446.	+57210.	+57259.	+57203.
15		+57199.	+57245.	+57314.	+57578.	+57221.	+57194.	+57210.
16		+57217.	+57242.	+57263.	+57293.	+57227.	+57222.	+57213.
17		+57236.	+57303.	+57415.	+57403.	+57205.	+57194.	+57208.
18		+57174.	+57295.	+57241.	+57420.	+57183.	+57183.	+57127.
19		+57151.	+57128.	+57144.	+57183.	+57179.	+57140.	+57105.
20		+57140.	+57110.	+57130.	+57191.	+57169.	+57148.	+57095.
21		+57146.	+57137.	+57146.	+57192.	+57164.	+57151.	+57105.
25		+57153.	+57139.	+57150.	+57177.	+57160.	+57159.	+57149.
23		+57158.	+57158.	+57148.	+57171.	+57160.	+57164.	+57154.
MEAN		+57169.95	+57192.87	+57222.33	+57239.41	+57165.54	+57181.41	+57160.88

TABLE 1
(continued)

	FLETCHERS ICE ISLAND (T3), 1961.. TOTAL INTENSITY VS GMT											
	06	07	08	09	10	11	12	JUNE				
01	+57166.	+57158.	+	+	+	+57164.	+57154.					
02	+57171.	+57149.	+	+	+	+57173.	+57155.					
03	+57158.	+57169.	+	+	+	+57167.	+57160.					
04	+	+57181.	+	+	+	+57170.	+57178.					
05	+	+57174.	+	+	+	+57181.	+57214.					
06	+	+57202.	+	+	+	+57208.	+57191.					
07	+	+57162.	+	+	+	+57190.	+57088.					
08	+	+57121.	+	+	+	+57178.	+57178.					
09	+	+57130.	+	+	+	+57180.	+57197.					
10	+57145.	+57003.	+	+	+	+57169.	+57194.					
11	+57153.	+57303.	+	+	+57174.	+57176.	+57156.					
12	+57167.	+57255.	+	+	+57196.	+57168.	+57195.					
13	+57194.	+57212.	+	+	+57207.	+57168.	+57239.					
14	+57208.	+57252.	+	+	+57164.	+57179.	+57209.					
15	+57281.	+	+	+	+57170.	+57175.	+57229.					
16	+57241.	+	+	+	+57171.	+57177.	+57287.					
17	+57280.	+	+	+	+57195.	+57181.	+57207.					
18	+57331.	+	+	+	+57186.	+57183.	+57169.					
19	+57319.	+	+	+	+57180.	+57180.	+57189.					
20	+57102.	+	+	+	+57168.	+57169.	+57175.					
21	+57133.	+	+	+	+57161.	+57169.	+57156.					
22	+57081.	+	+	+	+57161.	+57164.	+57154.					
23	+57131.	+	+	+	+57155.	+57159.	+57150.					
23	+57148.	+	+	+	+57155.	+57153.	+57155.					
MEAN	+57189.38	+57176.50	+0.00	+0.00	+57174.50	+57174.20	+57182.45					

TABLE 1
(continued)

		FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT								
		13	14	15	16	17	18	19	JUNE	
01		+57153.	+57154.	+57158.	+57164.	+57154.	+57146.			+
02		+57153.	+57163.	+57160.	+57188.	+57164.	+57163.			+
03		+57162.	+57169.	+57180.	+57212.	+57185.	+			+
04		+57163.	+57169.	+57189.	+57228.	+57191.	+57184.			+
05		+57166.	+57185.	+57198.	+57208.	+57236.	+			+
06		+57183.	+57190.	+57210.	+	+57184.	+57188.			+
07		+57194.	+57197.	+57205.	+	+57200.	+			+
08		+57203.	+57196.	+57204.	+	+57183.	+57149.			+
09		+57186.	+57194.	+57181.	+	+57173.	+57017.			+
10		+57163.	+57139.	+57140.	+	+57179.	+57047.			+
11		+57124.	+57140.	+57143.	+	+57164.	+			+
12		+57162.	+57175.	+57171.	+	+57176.	+			+
13		+57178.	+57181.	+57186.		+57214.	+			+
14		+57219.	+57209.	+57241.	+57125.	+57141.	+			+
15		+57204.	+57231.	+57238.	+57171.	+57169.	+			+
16		+57183.	+57209.	+57239.	+57150.	+57169.	+			+
17		+57184.	+57203.	+57369.	+	+57169.	+			+
18		+57161.	+57178.	+57287.	+57163.	+57169.	+			+
19		+57147.	+57179.	+57135.	+57093.	+57158.	+			+
20		+57158.	+57166.	+57055.	+	+57146.	+			+
21		+57152.	+57158.	+57121.	+	+	+			+
22		+57156.	+57152.	+57154.	+57119.	+57085.	+			+
23		+57154.	+57169.	+57156.	+57130.	+57113.	+			+
		+57148.	+57155.	+57154.	+57146.	+57130.	+			+
MEAN		+57169.00	+57177.54	+57186.41	+57161.30	+57167.47	+57127.71			+0.00

TABLE 1

FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.					TOTAL INTENSITY VS GMT			JUNE/JULY	
	27	28	29	30	01	02	03		
01	+57167.	+57149.	+	+	+	+57164.	+57168.		
02	+	+57155.	+	+	+	+57161.	+57166.		
03	+	+57163.	+	+	+57169.	+57173.	+57163.		
04	+57178.	+57180.	+	+	+57204.	+57174.	+57158.		
05	+57201.	+57207.	+	+	+	+57193.	+57165.		
06	+57237.	+57247.	+	+	+57144.	+57200.	+57168.		
07	+57183.	+57223.	+	+	+56983.	+57124.	+57199.		
07	+57044.	+57209.	+	+	+57064.	+57166.	+57062.		
08	+56936.	+57193.	+	+	+57009.	+57066.	+57083.		
09	+	+57170.	+57157.	+	+57084.	+57071.	+57028.		
10	+57114.	+57120.	+	+	+57059.	+57129.	+57116.		
11	+57185.	+	+57224.	+	+57147.	+57173.	+57145.		
12	+57207.	+57156.	+57271.	+	+57242.	+57147.	+57182.		
13	+57239.	+57213.	+57334.	+	+57212.	+57196.	+57235.		
14	+57227.	+57220.	+57290.	+	+57213.	+57208.	+57231.		
15	+57251.	+57247.	+57223.	+	+57234.	+57225.	+57284.		
16	+57233.	+57270.	+57221.	+	+57231.	+57267.	+57283.		
17	+57274.	+57266.	+57304.	+	+57246.	+57318.	+57352.		
18	+57215.	+	+	+	+57168.	+57153.	+57162.		
19	+57160.	+	+	+	+57131.	+57126.	+57145.		
20	+57151.	+	+	+	+57145.	+57089.	+57159.		
21	+57141.	+57149.	+	+	+57148.	+57117.	+		
22	+57150.	+57138.	+	+	+57145.	+57139.	+		
23	+57151.	+	+	+	+57143.	+57158.	+57131.		
MEAN	+57173.52	+57193.42	+57253.00	+0.00	+57148.61	+57164.04	+57172.04		

TABLE 1
(continued)

	FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT									
	04	05	06	07	08	09	10	JULY		
00	+57141.	+57274.	+57168.	+57176.	+.	+.	+57149.			
01	+	+57213.	+57190.	+57181.	+	+	+57159.			
02	+57151.	+57151.	+57171.	+57228.	+	+	+57137.			
03	+57174.	+57162.	+57208.	+	+	+	+57214.			
04	+57191.	+56968.	+57175.	+	+57143.	+	+57214.			
05	+57205.	+56883.	+57199.	+	+57155.	+	+57100.			
06	+57194.	+56952.	+57194.	+	+57179.	+57102.	+57134.			
07	+57168.	+56948.	+57181.	+	+57158.	+57017.	+57061.			
08	+57157.	+57013.	+57081.	+	+57010.	+57045.	+57186.			
09	+57114.	+57016.	+57104.	+57115.	+56952.	+57157.	+57081.			
10	+57123.	+	+57111.	+57164.	+57117.	+57168.	+57492.			
11	+57131.	+	+57230.	+57213.	+57180.	+57136.	+57175.			
12	+57137.	+	+57275.	+57214.	+57198.	+57133.	+57404.			
13	+57159.	+57268.	+57186.	+57319.	+57322.	+57134.	+57253.			
14	+57175.	+57334.	+57212.	+57384.	+57208.	+57202.	+57208.			
15	+57197.	+57408.	+57191.	+57378.	+57237.	+57236.	+57177.			
16	+57181.	+57379.	+57365.	+57373.	+57189.	+57345.	+57257.			
17	+57125.	+57270.	+	+57301.	+57139.	+57191.	+57249.			
18	+57148.	+57199.	+57374.	+57260.	+57163.	+57156.	+57177.			
19	+57158.	+57164.	+57174.	+57150.	+57136.	+57167.	+57180.			
20	+57163.	+57115.	+57158.	+57129.	+57095.	+57170.	+			
21	+57137.	+57141.	+57121.	+57149.	+57140.	+57156.	+			
22	+57212.	+57143.	+	+57154.	+57143.	+57150.	+			
23	+57342.	+57144.	+	+	+	+57143.	+57158.			
MEAN	+57168.82	+57149.76	+57193.71	+57228.70	+57150.73	+57156.00	+57198.33			

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT									
	11	12	13	14	15	16	17	JULY	
00	+57163.	+57182.	+57150.	+57318.	+57224.	+57131.		+57158.	
01	+57167.	+57185.	+57153.	+57314.	+57202.	+57041.		+57172.	
02	+57173.	+57193.	+57218.	+57279.	+57233.	+56966.		+57179.	
03	+57198.	+57180.	+57183.	+57227.	+57220.	+56956.		+57201.	
04	+57192.	+57177.	+57201.	+57189.	+56942.	+57093.		+57203.	
05	+57214.	+57185.	+57216.	+57178.	+56915.	+57137.		+57165.	
06	+57177.	+57188.	+57212.	+57181.	+56843.	+57153.		+57160.	
07	+57181.	+57106.	+57222.	+57165.	+57083.	+57181.		+57171.	
08	+57189.	+57093.	+57173.	+57148.	+57096.	+57076.		+57197.	
09	+57157.	+57211.	+57099.	+	+57110.	+57081.		+57166.	
10	+57147.	+57127.	+56986.	+57371.	+57168.	+57115.		+57124.	
11	+57119.	+57216.	+57170.	+57319.	+57119.	+57160.		+57039.	
12	+57127.	+57190.	+57251.	+57396.	+57166.	+57151.		+57284.	
13	+57212.	+57171.	+57259.	+57486.	+57314.	+57200.		+57354.	
14	+57212.	+57171.	+57259.	+57486.	+57314.	+57200.		+57354.	
15	+57232.	+57165.	+57233.	+57471.	+57295.	+57276.		+57336.	
16	+57193.	+57167.	+57375.	+57595.	+57341.	+57174.		+57252.	
17	+57202.	+57175.	+57305.	+57640.	+57361.	+57250.		+57200.	
18	+57188.	+57166.	+57285.	+57535.	+57343.	+57309.		+57209.	
19	+57165.	+57158.	+57592.	+57432.	+57224.	+57039.		+57200.	
20	+57150.	+57151.	+57551.	+57434.	+	+57020.		+57459.	
21	+57143.	+57138.	+57470.	+57389.	+57452.	+57076.		+	
22	+57156.	+57135.	+57128.	+57224.	+57332.	+57115.		+	
23	+57177.	+57146.	+57312.	+57194.	+57214.	+57145.		+57091.	
MEAN	+57176.41	+57165.66	+57250.12	+57346.56	+57196.13	+57126.87		+57212.45	

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.					TOTAL INTENSITY VS GMT			
	18	19	20	21	22	23	24	JULY
00	+	+57218.	+57163.	+57180.	+	+	+	+
01	+	+57087.	+57162.	+	+	+	+	+
02	+	+57045.	+57174.	+	+	+	+	+
03	+57115.	+56971.	+57166.	+	+	+	+	+
04	+57067.	+56961.	+57181.	+	+	+	+	+
05	+56910.	+57163.	+57211.	+	+	+	+	+
06	+56945.	+57190.	+57044.	+	+	+	+	+
07	+56883.	+57205.	+57015.	+	+	+	+	+
08	+57020.	+57210.	+57018.	+	+	+	+	+
09	+57016.	+57205.	+57068.	+	+	+	+	+
10	+57078.	+57196.	+57139.	+	+	+	+	+
11	+57084.	+57185.	+57152.	+	+	+	+	+
12	+57398.	+57192.	+57192.	+	+	+	+	+
13	+57460.	+57194.	+57179.	+	+	+	+	+
14	+57514.	+57194.	+57181.	+	+	+	+	+
15	+57454.	+57200.	+57200.	+	+	+	+	+
16	+57385.	+57195.	+57159.	+	+	+	+	+
17	+57599.	+57205.	+57142.	+	+	+	+	+
18	+57776.	+57140.	+57126.	+	+	+	+	+
19	+57651.	+57146.	+57114.	+	+	+	+	+
20	+57484.	+57175.	+57055.	+	+	+	+	+
21	+57512.	+57173.	+57022.	+	+	+	+	+
25	+57407.	+57168.	+57052.	+	+	+	+	+
23	+57342.	+57160.	+57105.	+	+	+	+	+
MEAN	+57290.47	+57157.41	+57125.83	+57180.00	+57180.00	+57180.00	+57180.00	+57180.00

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.					TOTAL INTENSITY VS GMT				
25	26	27	28	29	30	31	JULY		
	+57157.	+57225.	+	+57164.	+57163.	+57165.			
01	+57220.	+57187.	+57175.	+57174.	+57169.	+57164.			
02	+57217.	+57222.	+57198.	+57179.	+57189.	+57171.			
03	+57232.	+57227.	+57207.	+57200.	+57205.	+57174.			
04	+57231.	+57230.	+57130.	+57205.	+57179.	+57174.			
05	+57205.	+57244.	+57177.	+57184.	+57194.	+57175.			
06	+57210.	+57211.	+57160.	+57182.	+57188.	+57178.			
07	+57222.	+57161.	+57169.	+57150.	+57138.	+57192.			
08	+57205.	+57174.	+57126.	+57095.	+57094.	+57186.			
09	+57185.	+56929.	+57103.	+57119.	+57119.	+57139.			
10	+57076.	+57166.	+57083.	+57096.	+57124.	+57121.			
11	+57252.	+57275.	+57130.	+57146.	+57174.	+57159.			
12	+57218.	+57241.	+57165.	+57165.	+57174.	+57223.			
13	+57284.	+57138.	+57208.	+57203.	+57232.	+57251.			
14	+57332.	+57218.	+57175.	+57245.	+57259.	+57272.			
15	+57264.	+57148.	+57219.	+57247.	+57287.	+57216.			
16	+57189.	+57154.	+57266.	+57235.	+57266.	+57208.			
17	+57169.	+57276.	+57197.	+57189.	+57230.	+57176.			
18	+57163.	+57384.	+57167.	+57170.	+57159.	+57155.			
19	+57156.	+57347.	+57180.	+57168.	+57126.	+57147.			
20	+57205.	+57130.	+57156.	+57144.	+57129.	+57047.			
21	+57091.	+56961.	+57094.	+57150.	+57145.	+57106.			
22	+57130.	+	+57118.	+57156.	+57153.	+57154.			
23	+57220.	+	+57157.	+57156.	+57158.	+57164.			
MEAN	+57166.58	+57193.09	+57163.47	+57171.75	+57177.25	+57171.54			

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.		TOTAL INTENSITY VS GMI					AUGUST	
		01	02	03	04	05	06	07
01		+57165.	+57147.	+	+57181.	+57156.	+57172.	+57169.
02		+57182.	+57115.	+	+57180.	+57168.	+57181.	+57164.
03		+57200.	+57165.	+	+57163.	+57178.	+57173.	+57165.
04		+57232.	+57179.	+57183.	+57226.	+57185.	+57173.	+57171.
05		+57213.	+57063.	+57210.	+57210.	+57184.	+	+57175.
06		+57196.	+57022.	+57079.	+57197.	+57198.	+	+57175.
07		+57193.	+57013.	+57063.	+57088.	+57169.	+	+57172.
08		+57184.	+56875.	+57065.	+57131.	+57120.	+	+57174.
09		+57183.	+57125.	+57049.	+57065.	+	+	+57176.
10		+57166.	+57139.	+57016.	+56994.	+57128.	+57147.	+57162.
11		+57170.	+57148.	+57098.	+57157.	+56980.	+57138.	+57140.
12		+57155.	+57215.	+57129.	+	+57190.	+57152.	+57149.
13		+57173.	+57270.	+57271.	+	+57164.	+57174.	+57206.
14		+57186.	+	+	+	+57208.	+57203.	+57168.
15		+57205.	+57360.	+57154.	+	+57236.	+57267.	+57186.
16		+57183.	+57305.	+57185.	+	+57250.	+57269.	+57200.
17		+57194.	+57339.	+57261.	+	+57262.	+57213.	+57154.
18		+57178.	+57300.	+57310.	+	+57234.	+57191.	+57164.
19		+57161.	+57194.	+57254.	+57149.	+57200.	+57134.	+57166.
20		+57151.	+	+57163.	+57121.	+57158.	+57128.	+57158.
21		+57138.	+	+57100.	+57114.	+57127.	+57139.	+
22		+57130.	+57124.	+57106.	+57128.	+57153.	+57149.	+
23		+57132.	+	+57146.	+57155.	+57161.	+57155.	+
24		+57140.	+	+57170.	+57151.	+57160.	+57156.	+
MEAN		+57175.41	+57163.05	+57150.60	+57141.76	+57172.56	+57174.42	+57169.70

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.		TOTAL INTENSITY VS GMT						
		08	09	10	11	12	13	14 AUGUST
01		+.	+57165.	+	+57173.	+57123.	+57154.	+57153.
02		+57163.	+57177.	+	+57199.	+57140.	+57155.	+57155.
03		+57163.	+57186.	+	+57265.	+57169.	+57179.	+57160.
04		+57168.	+57212.	+	+57262.	+57188.	+57193.	+57162.
05		+57193.	+57217.	+57238.	+57180.	+57186.	+57198.	+57164.
06		+57200.	+57213.	+57217.	+57194.	+57184.	+57186.	+57162.
07		+57100.	+57149.	+57075.	+57199.	+57180.	+57180.	+57167.
08		+56958.	+57144.	+56998.	+57181.	+57148.	+57181.	+57180.
09		+	+57175.	+56994.	+57151.	+57153.	+57180.	+57169.
10		+	+57165.	+57024.	+57184.	+	+57165.	+57133.
11		+	+57163.	+57138.	+57151.	+	+57162.	+57155.
12		+	+57165.	+57181.	+57220.	+	+57168.	+57144.
13		+	+57181.	+57183.	+57220.	+57175.	+57168.	+57166.
14		+	+57200.	+57218.	+57480.	+57171.	+57169.	+57324.
15		+	+57293.	+57519.	+57389.	+57172.	+57173.	+57217.
16		+	+57238.	+57401.	+57316.	+57190.	+57171.	+57213.
17		+	+57270.	+57393.	+57351.	+57213.	+57153.	+57208.
18		+	+57278.	+57328.	+57392.	+57160.	+57160.	+57370.
19		+	+	+57351.	+57444.	+57102.	+57162.	+57311.
20		+57333.	+	+57220.	+57347.	+57118.	+57159.	+57170.
21		+57158.	+	+57109.	+57055.	+	+57152.	+57120.
22		+57142.	+	+57102.	+57040.	+	+57149.	+57144.
23		+57142.	+	+57132.	+57056.	+	+57147.	+57148.
23		+57163.	+	+57147.	+57096.	+57146.	+57150.	+57155.
MEAN		+57156.91	+57199.50	+57198.40	+57231.04	+57162.11	+57167.25	+57185.41

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT									
	15	16	17	18	19	20	21	AUGUST	
01	+57159.	+57173.	+57180.	+57156.	+57162.	+57164.	+57164.	+57164.	
02	+	+57191.	+57184.	+57178.	+57165.	+57165.	+57165.	+57168.	
03	+	+57193.	+57194.	+57189.	+57178.	+57171.	+57171.	+57166.	
04	+	+57186.	+57192.	+57189.	+57202.	+57169.	+57169.	+	
05	+57160.	+57186.	+57194.	+57178.	+57209.	+57169.	+57169.	+	
06	+57170.	+57184.	+57185.	+57177.	+57166.	+57171.	+57171.	+	
07	+57188.	+57184.	+57184.	+57180.	+57099.	+57170.	+57170.	+	
08	+57105.	+57180.	+57188.	+57188.	+56928.	+57165.	+57165.	+57173.	
09	+56988.	+57194.	+57193.	+57185.	+57081.	+57163.	+57163.	+57169.	
10	+57128.	+57178.	+57173.	+57162.	+57085.	+57159.	+57159.	+57173.	
11	+57148.	+57174.	+	+57176.	+57163.	+57155.	+57155.	+57155.	
12	+57156.	+57150.	+	+57124.	+57240.	+57154.	+57154.	+57165.	
13	+57176.	+57180.	+57149.	+57162.	+57253.	+57158.	+57158.	+57197.	
14	+57166.	+57208.	+57176.	+57169.	+57280.	+57186.	+57186.	+57116.	
15	+57202.	+57194.	+57183.	+57173.	+57255.	+57206.	+57206.	+57155.	
16	+57217.	+57191.	+57174.	+57174.	+57205.	+57251.	+57251.	+57156.	
17	+57310.	+57208.	+57182.	+57168.	+57223.	+57285.	+57285.	+57156.	
18	+57282.	+57209.	+57176.	+57177.	+57181.	+57312.	+57312.	+57157.	
19	+57205.	+57154.	+57170.	+57173.	+57159.	+57242.	+57242.	+57141.	
20	+57129.	+57163.	+57141.	+57161.	+57155.	+57191.	+57191.	+57146.	
21	+57146.	+57159.	+57131.	+57155.	+57151.	+57113.	+57113.	+57149.	
22	+57144.	+57165.	+57124.	+57166.	+57146.	+57117.	+57117.	+57149.	
23	+57150.	+57164.	+57108.	+57161.	+57153.	+57146.	+57146.	+57141.	
	+57160.	+57164.	+57133.	+57161.	+	+57158.	+57158.	+57156.	
MEAN	+57166.14	+57180.50	+57168.81	+57170.08	+57166.91	+57180.83	+57157.60		

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.		TOTAL INTENSITY VS GMT						
		22	23	24	25	26	27	28 AUGUST
00		+57156.	+57155.	+57157.	+57147.	+57136.	+57188.	+57158.
01		+57158.	+57160.	+57158.	+57161.	+57143.	+57202.	+57169.
02		+57163.	+57166.	+57158.	+57174.	+57156.	+57144.	+57166.
03		+57166.	+57168.	+57159.	+57180.	+57173.	+57159.	+57175.
04		+57163.	+57174.	+57159.	+57176.	+57184.	+57170.	+57158.
05		+57169.	+57177.	+57155.	+57180.	+57195.	+57196.	+
06		+57166.	+57177.	+57155.	+57175.	+57153.	+57158.	+57161.
07		+57164.	+57185.	+57157.	+57152.	+57141.	+57064.	+57167.
08		+57165.	+57138.	+57158.	+57117.	+57140.	+57096.	+57167.
09		+57163.	+57151.	+57160.	+57114.	+57138.	+57156.	+57133.
10		+57149.	+57137.	+57154.	+	+	+57159.	+57146.
11		+57146.	+57083.	+57153.	+57134.	+57099.	+57162.	+57154.
12		+57116.	+57154.	+57154.	+57139.	+57110.	+57159.	+
13		+57155.	+57220.	+57159.	+57173.	+57116.	+57162.	+57145.
14		+57170.	+57269.	+57160.	+57226.	+57141.	+57176.	+57121.
15		+57155.	+57216.	+57177.	+57239.	+57150.	+57194.	+57152.
16		+57155.	+57166.	+57171.	+57177.	+57155.	+57199.	+57156.
17		+57143.	+57151.	+57157.	+57149.	+57160.	+57202.	+57163.
18		+57134.	+57151.	+57160.	+57138.	+57136.	+57127.	+57164.
19		+57105.	+57144.	+57127.	+57134.	+57138.	+57119.	+57151.
20		+57109.	+57143.	+57138.	+57126.	+57131.	+57129.	+57135.
21		+57116.	+57149.	+57129.	+57130.	+57095.	+57139.	+57123.
22		+57130.	+57156.	+57126.	+57132.	+57118.	+57144.	+57105.
23		+57142.	+57154.	+57140.	+57130.	+57128.	+57151.	+57125.
MEAN		+57148.25	+57164.33	+57153.37	+57156.65	+57140.69	+57156.45	+57149.72

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961. TOTAL INTENSITY VS GMT					04	AUG/SEPT
	29	30	31	01	02	03
00	+	+	+	+	+57133.	+57176.
01	+	+	+	+57188.	+57162.	+57208.
02	+	+	+	+57189.	+57181.	+57174.
03	+	+	+	+57172.	+57184.	+57166.
04	+	+	+	+57188.	+57194.	+57181.
05	+57158.	+	+	+57071.	+57188.	+57163.
06	+57156.	+	+	+57023.	+57182.	+57049.
07	+57155.	+	+	+57076.	+57112.	+57060.
08	+57159.	+	+	+57001.	+57149.	+57136.
09	+57159.	+	+	+57088.	+57122.	+57164.
10	+57156.	+	+	+57280.	+57108.	+57167.
11	+57146.	+	+	+57313.	+57135.	+57083.
12	+57149.	+	+	+57174.	+57263.	+57163.
13	+57129.	+	+	+57197.	+57375.	+57217.
14	+57130.	+	+	+57188.	+57297.	+57246.
15	+57160.	+	+	+57229.	+57291.	+57265.
16	+57149.	+	+	+57457.	+57291.	+57236.
17	+57148.	+	+	+57296.	+57258.	+57230.
18	+57128.	+	+	+57346.	+57180.	+57207.
19	+	+	+	+57249.	+57163.	+57080.
20	+	+	+	+57160.	+57163.	+57074.
21	+	+	+	+57110.	+57141.	+57121.
22	+	+	+	+57149.	+57152.	+57133.
23	+	+	+	+57108.	+57161.	+57158.
MEAN	+57148.71	+00	+00	+57184.86	+57191.04	+57160.70.
						+57174.33

TABLE 1
(continued)

FLETCHERS ICE ISLAND (T3), 1961.					TOTAL INTENSITY VS GMT		
	05	06	07	08	09	10	11
	SEPTEMBER						
00	+57160.	+57155.	+57150.	+57154.	+57169.	+	+57242.
01	+57175.	+57165.	+57159.	+57158.	+57173.	+	+57254.
02	+57210.	+57181.	+57170.	+57163.	+57176.	+	+57257.
03	+57201.	+57182.	+57168.	+57161.	+57186.	+	+57263.
04	+57179.	+57186.	+57166.	+57163.	+57193.	+	+57268.
05	+57172.	+57186.	+57163.	+57163.	+57192.	+	+57273.
06	+57178.	+57186.	+57164.	+57168.	+57209.	+57191.	+57275.
07	+57123.	+57173.	+57168.	+57169.	+57113.	+57188.	+57268.
08	+57075.	+57165.	+57136.	+57169.	+57106.	+57187.	+
09	+57104.	+57166.	+57134.	+57167.	+57131.	+57185.	+
10	+57083.	+57156.	+57138.	+57155.	+57194.	+57183.	+
11	+57126.	+57123.	+57152.	+57222.	+57106.	+57183.	+
12	+57176.	+57215.	+57161.	+57188.	+57196.	+57189.	+
13	+57339.	+57262.	+57184.	+57207.	+57228.	+57188.	+
14	+57373.	+57186.	+57194.	+57177.	+57228.	+57218.	+
15	+57276.	+57178.	+57197.	+57180.	+57223.	+57227.	+
16	+57224.	+57168.	+57182.	+57168.	+57194.	+57232.	+
17	+57205.	+57169.	+57170.	+57172.	+57195.	+57198.	+
18	+57131.	+57164.	+57158.	+57170.	+	+57141.	+
19	+57086.	+57152.	+57150.	+57160.	+	+	+
20	+57106.	+57154.	+57147.	+57157.	+	+	+
21	+57125.	+57154.	+57154.	+57154.	+	+	+
25	+57129.	+57158.	+57150.	+57163.	+	+	+
23	+57129.	+57155.	+57151.	+57168.	+	+57223.	+
MEAN	+57170.20	+57172.45	+57161.08	+57169.83	+57178.44	+57195.21	+57262.50

TABLE 2

MEAN DAILY VARIATION AND MEAN VALUE OF THE TOTAL INTENSITY
IN GAMMAS

Hour (GMT)	International Quiet Days	International Disturbed Days	All Days
0	57161	57193	57168
1	57166	57197	57175
2	57174	57209	57180
3	57182	57197	57182
4	57184	57167	57180
5	57187	57129	57172
6	57180	57097	57152
7	57173	57056	57133
8	57163	57066	57123
9	57159	57080	57120
10	57143	57149	57143
11	57154	57230	57168
12	57179	57283	57202
13	57201	57314	57225
14	57208	57337	57238
15	57203	57348	57245
16	57201	57354	57246
17	57187	57362	57229
18	57169	57340	57203
19	57158	57283	57169
20	57139	57200	57146
21	57140	57182	57142
22	57143	57162	57146
23	57154	57176	57159
Mean	57172	57214	57178

AF Cambridge Research Laboratories, Bedford, Mass. GEOMAGNETIC OBSERVATIONS ON FLETCHER'S ICE ISLAND [T-3] AFCRL-63-615 Unclassified Report Values of the total intensity of the geomagnetic field are presented. The measurements were made in the Arctic Ocean at latitude 72°N, longitude 160°W. The mean daily variation is given for quiet, disturbed, and all days.	UNCLASSIFIED 1. Geomagnetism 2. Arctic Geophysics 1. Lamont Geological Observatory Palisades, N.Y. II. James C. G. Walker	UNCLASSIFIED 1. Geomagnetism 2. Arctic Geophysics 1. Lamont Geological Observatory Palisades, N.Y. II. James C. G. Walker
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